

Title (en)

A LASER DETECTION AND RANGING DEVICE FOR DETECTING AN OBJECT UNDER A WATER SURFACE

Title (de)

LASERDETEKTIONS- UND -ENTFERNUNGSMESSVORRICHTUNG ZUR DETEKTION EINES OBJEKTS UNTER EINER WASSEROBERFLÄCHE

Title (fr)

DISPOSITIF DE DÉTECTION ET DE TÉLÉMÉTRIE LASER POUR DÉTECTER UN OBJET SOUS UNE SURFACE D'EAU

Publication

**EP 3441790 A1 20190213 (EN)**

Application

**EP 18196883 A 20131023**

Priority

- EP 18196883 A 20131023
- EP 13189865 A 20131023

Abstract (en)

The invention relates to a laser detection and ranging device (100) for detecting an object under a water surface, the laser detection and ranging device (100) comprising a laser transmitter (101) being configured to modulate a laser beam by a binary pseudo-random coding sequence to obtain a modulated laser beam, and to transmit the modulated laser beam towards the water surface, a laser detector (103) for detecting a reflected laser beam, the reflected laser beam forming a reflected version of the transmitted laser beam, and a processor (105) for detecting the object under the water surface upon the basis of the reflected laser beam.

IPC 8 full level

**G01S 7/484** (2006.01); **G01S 7/4911** (2020.01); **G01S 13/86** (2006.01); **G01S 17/02** (2006.01); **G01S 17/10** (2006.01); **G01S 17/26** (2020.01); **G01S 17/42** (2006.01); **G01S 17/86** (2020.01); **G01S 17/89** (2020.01)

CPC (source: EP US)

**G01S 7/4911** (2013.01 - US); **G01S 7/499** (2013.01 - EP US); **G01S 17/26** (2020.01 - EP US); **G01S 17/42** (2013.01 - EP US); **G01S 17/86** (2020.01 - EP US); **G01S 17/89** (2013.01 - EP US); **G01S 13/865** (2013.01 - EP US)

Citation (search report)

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DOCDB simple family (application)

**EP 13189865 A 20131023**; DK 13189865 T 20131023; EP 18196883 A 20131023; EP 2014072789 W 20141023; JP 2016526104 A 20141023; JP 2019151782 A 20190822; US 201415031021 A 20141023; US 201816224459 A 20181218